BookletChartTM

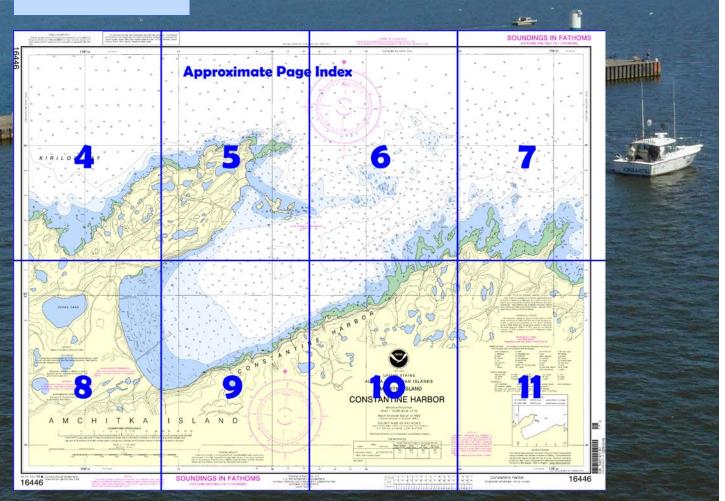
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Constantine HarborNOAA Chart 16446

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

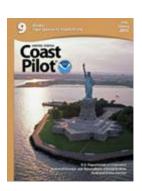
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=164 46.



(Selected Excerpts from Coast Pilot)
Constantine Harbor, on the N side of
Amchitka Island 6 miles W of East Cape,
provides a fair anchorage. Because there
are no prominent features on the island,
caution is necessary to avoid mistaking
other indentations for Constantine Harbor.
The S side of Constantine Harbor entrance
is foul for 0.5 mile offshore. On the N side a
reef, covered less than 2 fathoms in places
and marked by heavy kelp, extends almost
1.5 miles E of Kirilof Point. The head of the

harbor is a sand beach; other shores are rocky bluffs. **Currents.**—Currents in the entrance to Constantine Harbor are strong and set across the narrow entrance channel. N to NE gales may force

vessels anchored in the harbor out to sea. The harbor is reported free of williwaws.

Local magnetic disturbance.—Differences of as much as 5° from the normal variation have been observed in Constantine Harbor. The 0.2-mile-wide channel between the reefs at the entrance can be made on course **235°**; depths are 20 to 30 fathoms. Once inside anchorage is available in 6 to 20 fathoms, fair holding ground in sand and shell bottom.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Juneau Commander

17th CG District (907) 463-2000

Juneau, Alaska

Corrected through NM May 29/04 Corrected through LNM May 11/04

HEIGHTS Heights in feet above Mean High Water

NOTE A

NOTE A
Navigation regulations are published in
Chapter 2, U.S. Coost Pilot 9. Additions or
revisions to Chapter 2 are published in Notices to Marrines. Information concerning
the regulations may be obtained at the Office
of the Commander, 17th Coost Guard District in
Juneau, Alaska, or at the Office of the District
Engineer, Corps of Engineers in Anchorage,
Alaska.

Refer to charted regulation section numbers

LOCAL MAGNETIC DISTURBANCE

Differences of as much as 5° from the normal variation have been observed in Constantine Harbor.

PROHIBITED AREA Amchitka Island Regulations are published in 50CFR36.39.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

HORIZONTAL DATUM

The norizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charing purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an everage of 5.678" southward and 9.817" westward to agree with this chart.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

Mercator Projection Scale 1:10,000 at Lat. 51°25

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FATHOMS (FATHOMS AND FEET TO ELEVEN FATHOMS) AT MEAN LOWER LOW WATER

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Geological Survey, and National Geospatial-Intelligence Agency.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 452).

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

UPDATING SERVICE

FOR THIS CHART, a listing of NOTICE TO MARINERS (NM) corrections subsequent to the NM corrected through date shown in the lower left hand corner, is available from the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

COLREGS, 80.1705 (see note A)

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line

Table of Selected Chart Notes

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated): R TR radio tower Al alternating IQ interrupted quick N nun Rot rotating OBSC obscured
Oc occulting
Or orange B black Iso isophase s seconds LT HO lighthouse M nautical mile m minutes SEC sector St M statute miles Bn beacon C can DIA diaphone Q quick VQ very quick MICRO TR microwave tower W white FI flashing Mkr marker Ra Ref radar reflector WHIS whistle Bottom characteristics: Bids boulders bk broken Cy clay Oys oysters Rk rock S sand G gravel Grs grass h hard M mud sy sticky AUTH authorized Obstn obstruction PD position doubtful Subm submerged AUTH authorized Chein obstruction PD position doubtful ED existence doubtful PA position approximate Rep reported 21. Wreck, rock, obstruction, or shoel swept clear to the depth indicated. (2) Rocks that cover and uncover, with heights in feet above datum of soundings.

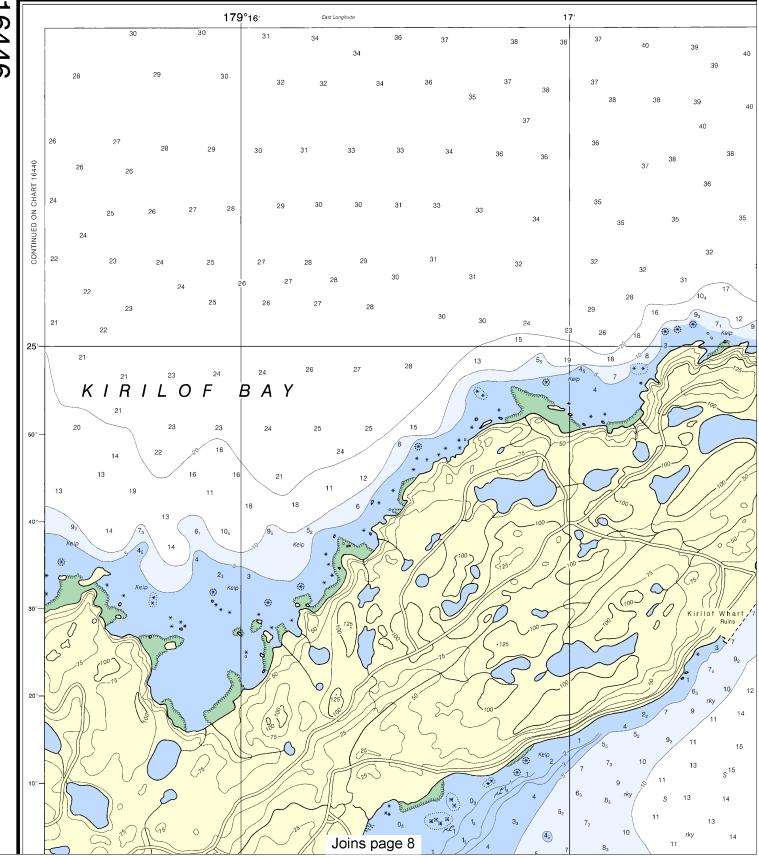
	TIDAL INFORMATION						
	Disease		Height referred to datum of soundings (MLLW)				
-	Place Name (Lat/Long)	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water	[-
	0	05/N/470947/F\	feet	feet	feet	feet	
	Constantine Harbor (51°25'N/179°17'E) Note: Tide is chiefly diurnal		2.8	2.4	0.9	-3.0	
(Mar 2004)							

POLLUTION REPORTS

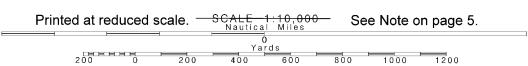
POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

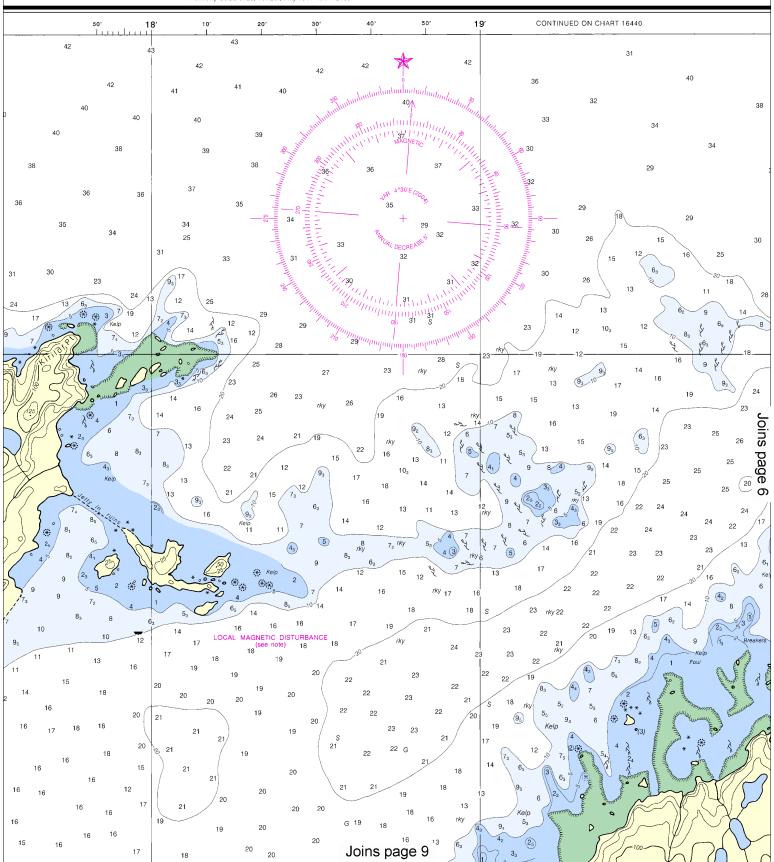
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

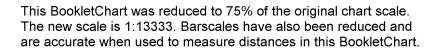




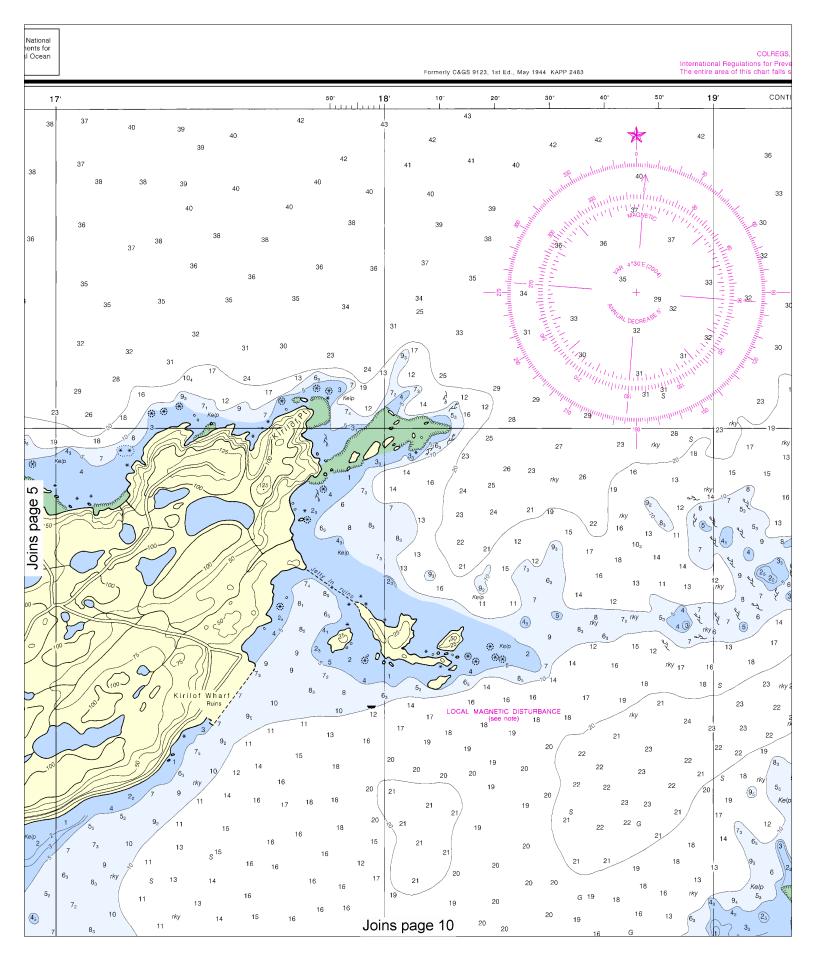
Note: Chart grid lines are aligned with true north.





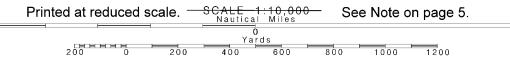






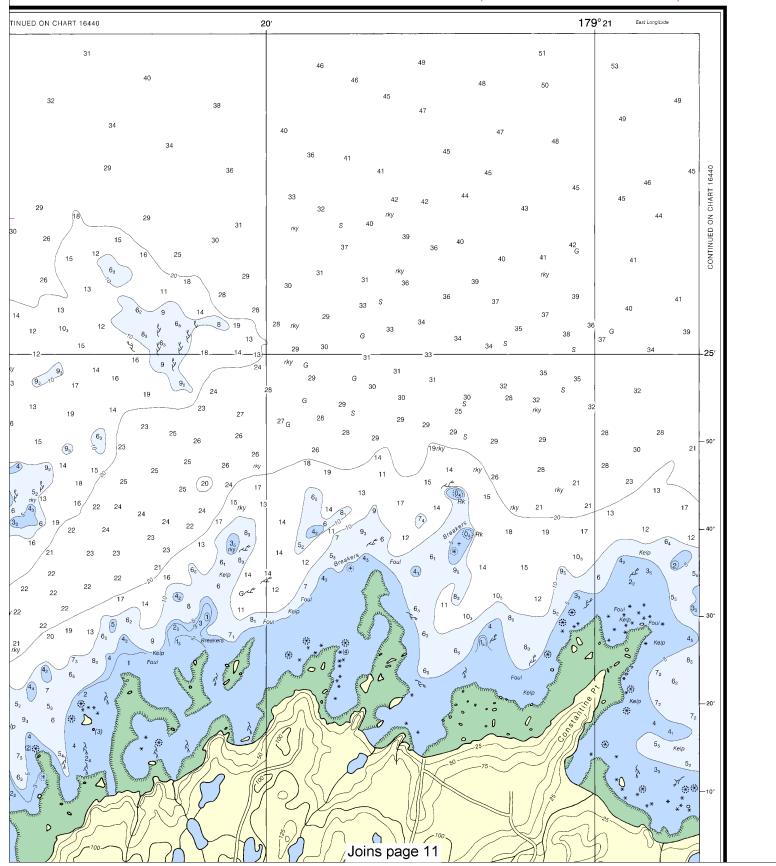


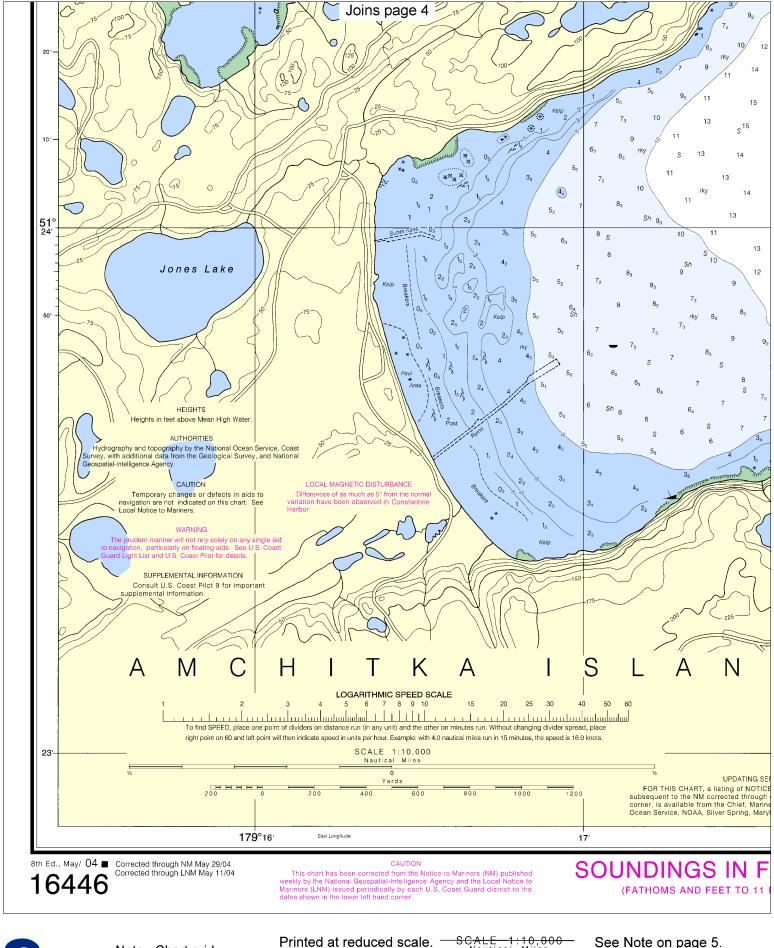
Note: Chart grid lines are aligned with true north.



SOUNDINGS IN FATHOMS

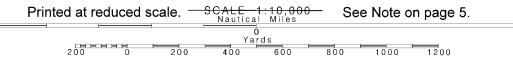
(FATHOMS AND FEET TO 11 FATHOMS)

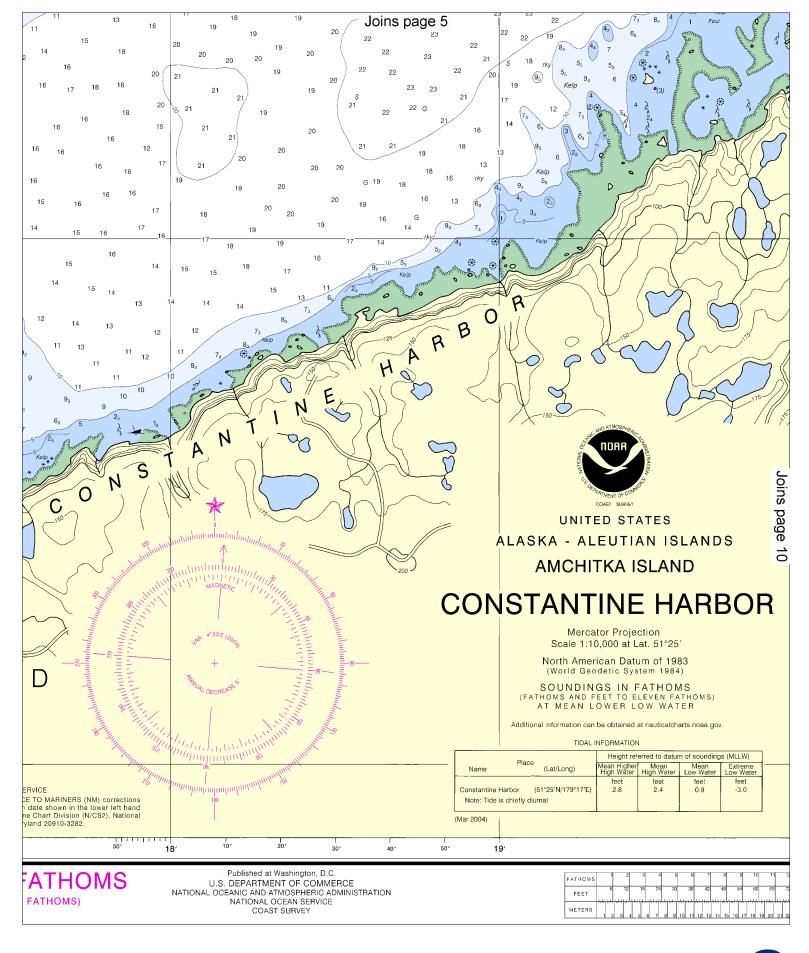


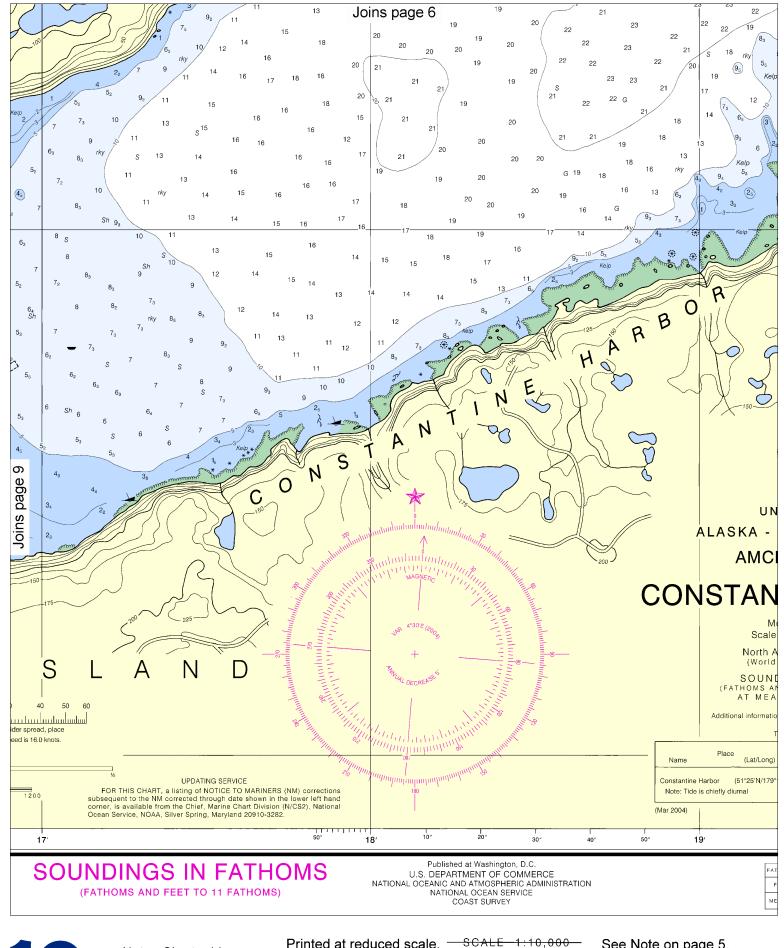




Note: Chart grid lines are aligned with true north.

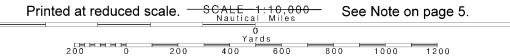


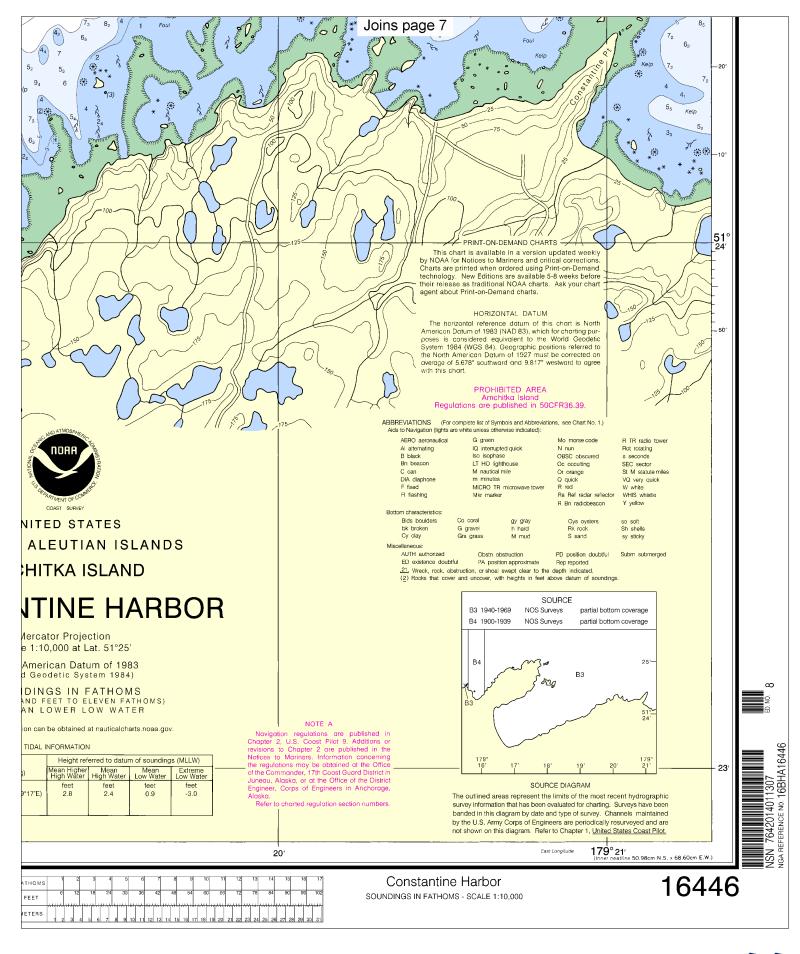




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Note: Chart grid lines are aligned with true north.







VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

